

ABSTRACT

A skid steer vehicle is supported on four gearboxes that function both as control arms and as speed reduction gearboxes. Each side of the vehicle's chassis has two gearboxes to which it is coupled. A hydraulic motor is fixed to each side of the chassis to drive the gearboxes on that side. The motors are arranged such that their drive shafts extend longitudinally along the chassis, with a front shaft engaging the front gearbox and a rear shaft engaging the rear gearbox. The gearboxes include three speed-reducing right angle gear sets coupling an axle extending from the gearbox to the motor driving that gearbox.